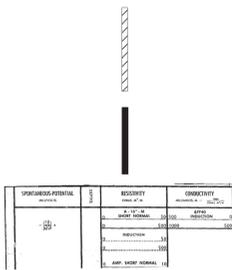


### EXPLANATION FOR PLATES 2 - 5

1  
2501521037  
Montana Power Company  
8-8 Hettrick  
Sec. 08, T. 29 N., R. 14 E.  
KB 3,065 ft  
Wildcat  
TD 3,675  
Mississippian Madison Limestone  
Drilled and Abandoned  
DST: 1,035-1,095 (Eagle)  
SI 30 min., open 1 hour 30 min.,  
SI 1 hour 30 min., rec. 500 ft MCW,  
FP 70-285, SIP 358-358, HP 590-582  
Stratigraphic notes: 1  
Operator's pick of Virgelle Sandstone  
Member of Eagle Sandstone at 1,161 ft

Arbitrary well number, keyed to index map (below)  
American Petroleum Institute (API) well number  
Operator name  
Well number and name  
Spot location of well  
Elevation of kelly bushing (feet above sea level)  
Field in which well is located  
Total depth of well (feet above sea level)  
Formation at total depth  
Status of well  
Drill-stem test information: interval and formation tested,  
shut-in and open times, recovery, pressures. See below for  
abbreviations used  
Notes on stratigraphic units in the well. These consist  
of operator's picks of some stratigraphic units and  
observations from sample descriptions. Notes are  
keyed to numbers along the right margins of the logs



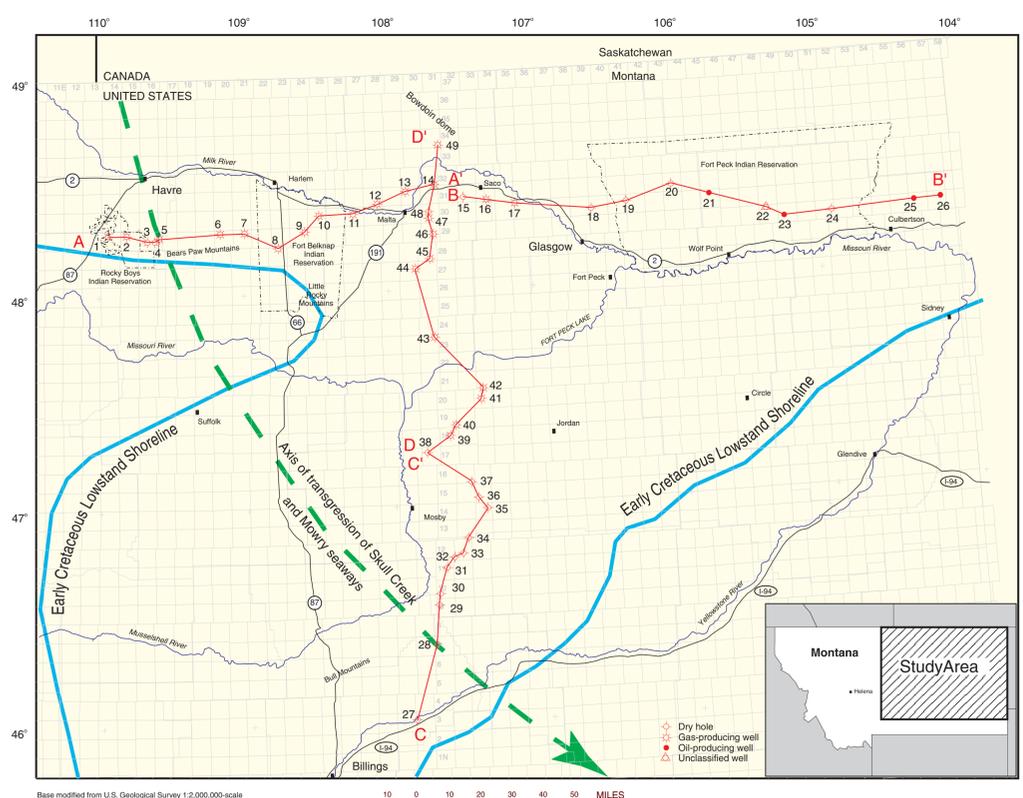
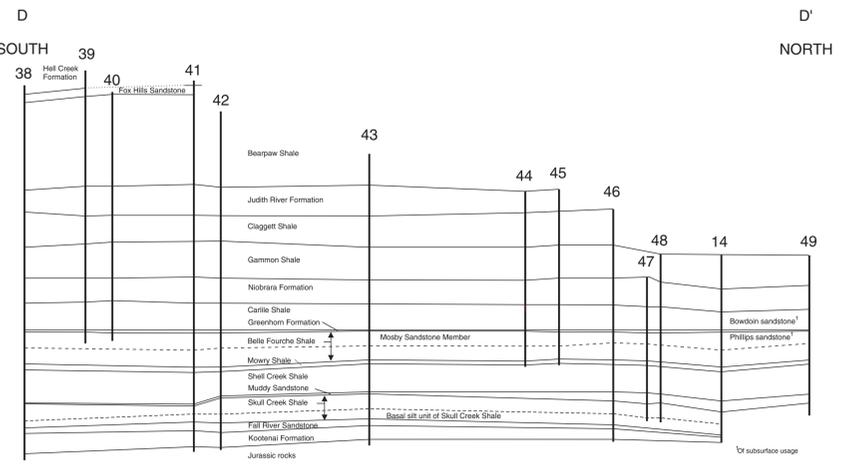
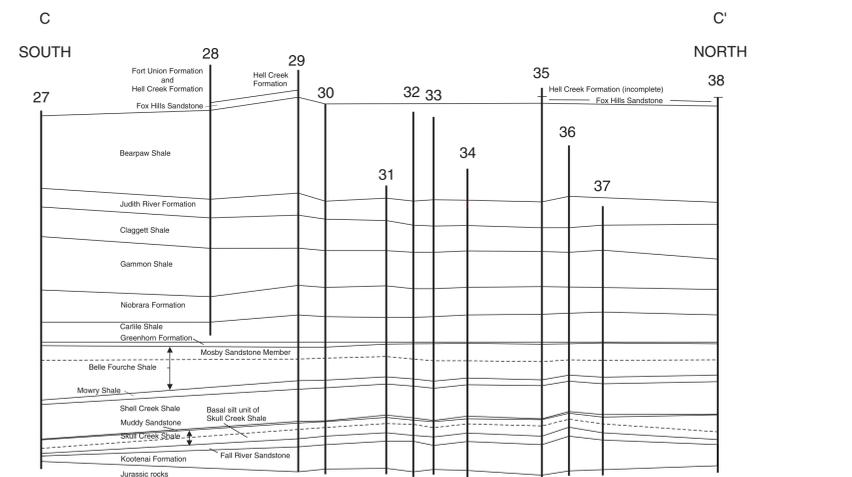
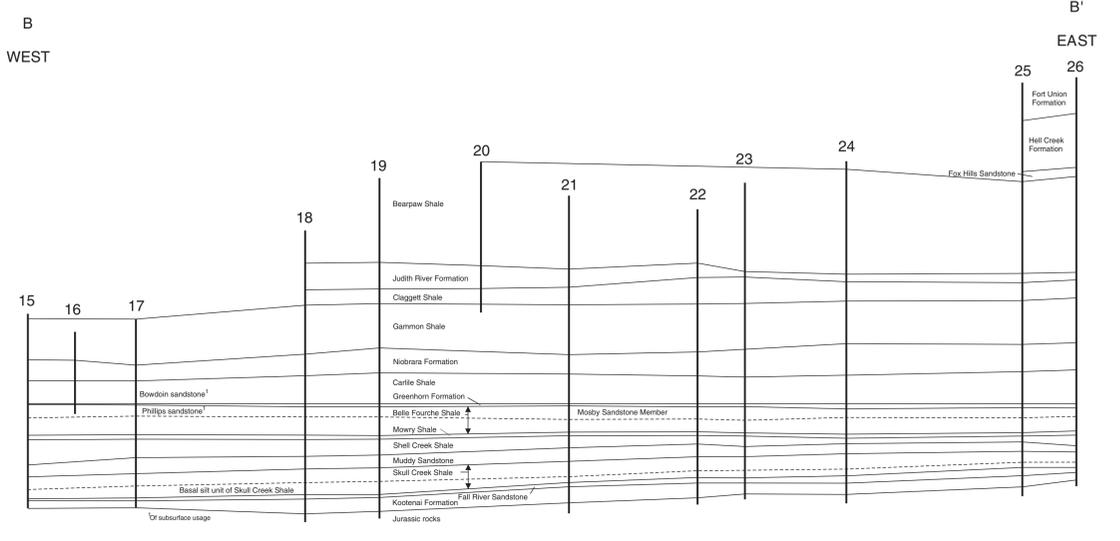
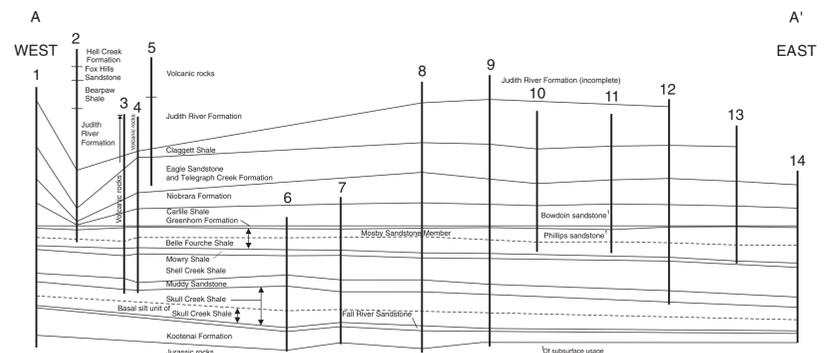
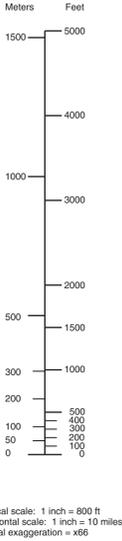
Geophysical logs:

Log traces were scanned from the best available copies of public domain wells. Most logs are varieties of electrical logs, which have spontaneous potential, resistivity, and conductivity curves. Some wells have caliper and gamma-ray curves on the left and density porosity and neutron porosity on the right.

Abbreviations

SI	Shut-in
FP	Flow pressure
SIP	Shut-in pressure
FSIP	Final shut-in pressure
HP	Hydrostatic pressure
Perfs.	Perforated intervals
MCFGPD	Thousand cubic feet of gas per day
MCW	Mud cut water
GCM	Gas cut mud
GCW	Gas cut water
SGCM	Slightly gas cut mud
SGCMW	Slightly gas cut muddy water
SMCW	Slightly mud cut water
SWTR	Salt water
VSGCM	Very slightly gas cut mud
SWCM	Salt water cut mud
WCM	Water cut mud
KB	Kelly bushing
GR	Ground elevation
TD	Total depth
DST	Drill stem test
GTS	Gas to surface

All pressures are reported in pounds



Restored stratigraphic diagrams of cross sections A-A', B-B', C-C', and D-D'.